INDEX TO VOLUME 42

January—December 1992

SUBJECT INDEX

Accuracy Assessments
Accuracy assessment of EPA protocol gases purchased in 1991, 1617
Acid Deposition
Field measurements of dry deposition compounds using the transition flow reactor, 36
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592
Global air pollution control in 1992 and its relationship to the solid waste industry, 254
Acid Weathering
Leaching boundary movement in solidified/stabilized waste forms, 164
Acidic Precipitation
Growth response of four species of eastern hardwood tree seedlings exposed to ozone, acidic precipitation, and sulfur dioxide, 309
Acidity
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345
Aerosols
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770
Agriculture
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046
Air & Waste Management Association
A preview of A&WMA's on-line information system, 1392
Air, waste and environmental management research faculty profile questionnaire, 225
Guide to the 85th annual meeting & exhibition, 533
Air Pollution
A vision of clean air, 888
Air pollution monitoring in Amman, Jordan, 814
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063
Selected international receptor-based air quality standards, 1567
The history of air pollution in York, England, 1562
Air Pollution Standards
Airborne particulate emissions from a chromic acid anodizing process tank, 303
Air Quality
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186
Statistical analysis of trends in urban ozone air quality, 1204
Air Quality Standards
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324
Dispersion of traffic and space heating emissions in urban settings, 448
Air Quality Studies
Unsteady tall stack dispersion of chimney emissions and its application to varying wind directions, 1078
Air Quality Trends Report
EPA releases 18th annual air quality trends report, 72
Air Toxics
Atmospheric concentrations of PCDDs/PCDFs in Southern California, 672
Measurements of VOCs from the TAMS network, 1319
Airborne Lidar
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
Alternative Technologies
Solvent extraction processes: A survey of systems in the SITE program, 1118
Ambient Air
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49
Ambient Air Quality
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046
Ambient Air Quality Standards
Selected international receptor-based air quality standards, 1567
Ambient Concentrations
Field measurements of dry deposition compounds using the transition flow reactor, 36
Ammonia Radical Injection
Flue gas NOx Reduction using ammonia radical injection, 1193
Applications
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Architectural Damage
The history of air pollution in York, England, 1562
Area Sources
Practical guidance for flux chamber measurements of fugitive volatile organic emission rates, 1583
Arsenic
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
The behavior of arsenic in a rotary kiln incinerator, 179
Atmospheric Chemistry
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324
Auditing
The Clean Air Act: New enforcement and liability provisions, 1414
Audits
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198
Author's Guide
Journal of the Air & Waste Management Association Editorial Policy and Author's Guide to Manuscript Preparation, 119
Automotive Exhaust
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912
The cost of reducing emissions from late-model high-emitting vehicles detected via remote sensing, 921
Baghouses
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240
Bankruptcy
Keeping potentially responsible parties (PRPs) out of bankruptcy courts, 259
Batch Distillation
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936
Bioventing
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345
Calcium Silicate Sorbents
Current status of the ADVACATE process for flue gas desulfurization, 103
Calculation Methods
Photochemical ozone creation potentials: A study of different concepts, 1152
Calibration
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198
Canyonlands National Park
The WHITEX study and the role of the scientific community: A critique, 1453
Carbon Dioxide
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461
Carbon Monoxide
Emission characteristics of Mexico City vehicles, 1424
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212
Vehicle occupant exposure to carbon monoxide, 1603
Carcinogens
Suppression of soot by metal additives during the combustion of polystyrene, 1082
Catalytic Conversion
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071
Characterization
Why did you take that sample?, 1420
Chlorofluorocarbons
EPA's research projects relating to the dual-circuit and Lorenz refrigerator/freezers, 68
Reducing the use of ozone depleting chemicals: The Irvine, California ordinance, 429
Simulation results of single refrigerants for use in a dual-circuit refrigerator/freezer, 185
Chromic Acid Anodizing
Airborne particulate emissions from a chromic acid anodizing process tank, 303
Classification
Photochemical ozone creation potentials: A study of different concepts, 1152
Clean Air Act Amendments
EPA announces first rules under CAAA to control offshore air pollution, 1350
EPA's clean air act operating permit rules, 1288
"Fuel cleaning" and materials separation at waste-to-energy plants, 767
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592
Global air pollution control in 1992 and its relationship to the solid waste industry, 254
Optical remote measurement of toxic gases, 18
Overview of U.S. Environmental Protection Agency's Hazardous Air Pollutant Early Reduction Program, 31
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110
The Clean Air Act: New enforcement and liability provisions, 1414
The OTC challenge: Adding VOC and NOx controls in the Northeast, 1053
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
Cleanup Standards
Development of cleanup standards at superfund sites: An evaluation of consistency, 762
Climate
A vision of clean air, 888
Surface-level ozone: Climate change and evidence for trends, 136
The total greenhouse warming potential of technical systems: analysis for decision making, 422
Climate Effects
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328
Coal Tar Pitch
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609
Coal-Burning Facilities
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592
Coal-Fired
The WHITEX study and the role of the scientific community: A critique, 1453
Coal-Fired Boilers
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
Coal-Fired Flow Facility
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466

INDEX TO VOLUME 42

January—December 1992

SUBJECT INDEX

Accuracy Assessments
Accuracy assessment of EPA protocol gases purchased in 1991, 1617
Acid Deposition
Field measurements of dry deposition compounds using the transition flow reactor, 36
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592
Global air pollution control in 1992 and its relationship to the solid waste industry, 254
Acid Weathering
Leaching boundary movement in solidified/stabilized waste forms, 164
Acidic Precipitation
Growth response of four species of eastern hardwood tree seedlings exposed to ozone, acidic precipitation, and sulfur dioxide, 309
Acidity
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345
Aerosols
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770
Agriculture
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046
Air & Waste Management Association
A preview of A&WMA's on-line information system, 1392
Air, waste and environmental management research faculty profile questionnaire, 225
Guide to the 85th annual meeting & exhibition, 533
Air Pollution
A vision of clean air, 888
Air pollution monitoring in Amman, Jordan, 814
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063
Selected international receptor-based air quality standards, 1567
The history of air pollution in York, England, 1562
Air Pollution Standards
Airborne particulate emissions from a chromic acid anodizing process tank, 303
Air Quality
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186
Statistical analysis of trends in urban ozone air quality, 1204
Air Quality Standards
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324
Dispersion of traffic and space heating emissions in urban settings, 448
Air Quality Studies
Unsteady tall stack dispersion of chimney emissions and its application to varying wind directions, 1078
Air Quality Trends Report
EPA releases 18th annual air quality trends report, 72
Air Toxics
Atmospheric concentrations of PCDDs/PCDFs in Southern California, 672
Measurements of VOCs from the TAMS network, 1319
Airborne Lidar
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
Alternative Technologies
Solvent extraction processes: A survey of systems in the SITE program, 1118
Ambient Air
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49
Ambient Air Quality
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046
Ambient Air Quality Standards
Selected international receptor-based air quality standards, 1567
Ambient Concentrations
Field measurements of dry deposition compounds using the transition flow reactor, 36
Ammonia Radical Injection
Flue gas NOx Reduction using ammonia radical injection, 1193
Applications
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Architectural Damage
The history of air pollution in York, England, 1562
Area Sources
Practical guidance for flux chamber measurements of fugitive volatile organic emission rates, 1583
Arsenic
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
The behavior of arsenic in a rotary kiln incinerator, 179
Atmospheric Chemistry
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324
Auditing
The Clean Air Act: New enforcement and liability provisions, 1414
Audits
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198
Author's Guide
Journal of the Air & Waste Management Association Editorial Policy and Author's Guide to Manuscript Preparation, 119
Automotive Exhaust
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912
The cost of reducing emissions from late-model high-emitting vehicles detected via remote sensing, 921
Baghouses
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240
Bankruptcy
Keeping potentially responsible parties (PRPs) out of bankruptcy courts, 259
Batch Distillation
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936
Bioventing
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345
Calcium Silicate Sorbents
Current status of the ADVACATE process for flue gas desulfurization, 103
Calculation Methods
Photochemical ozone creation potentials: A study of different concepts, 1152
Calibration
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198
Canyonlands National Park
The WHITEX study and the role of the scientific community: A critique, 1453
Carbon Dioxide
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461
Carbon Monoxide
Emission characteristics of Mexico City vehicles, 1424
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212
Vehicle occupant exposure to carbon monoxide, 1603
Carcinogens
Suppression of soot by metal additives during the combustion of polystyrene, 1082
Catalytic Conversion
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071
Characterization
Why did you take that sample?, 1420
Chlorofluorocarbons
EPA's research projects relating to the dual-circuit and Lorenz refrigerator/freezers, 68
Reducing the use of ozone depleting chemicals: The Irvine, California ordinance, 429
Simulation results of single refrigerants for use in a dual-circuit refrigerator/freezer, 185
Chromic Acid Anodizing
Airborne particulate emissions from a chromic acid anodizing process tank, 303
Classification
Photochemical ozone creation potentials: A study of different concepts, 1152
Clean Air Act Amendments
EPA announces first rules under CAAA to control offshore air pollution, 1350
EPA's clean air act operating permit rules, 1288
"Fuel cleaning" and materials separation at waste-to-energy plants, 767
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592
Global air pollution control in 1992 and its relationship to the solid waste industry, 254
Optical remote measurement of toxic gases, 18
Overview of U.S. Environmental Protection Agency's Hazardous Air Pollutant Early Reduction Program, 31
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110
The Clean Air Act: New enforcement and liability provisions, 1414
The OTC challenge: Adding VOC and NOx controls in the Northeast, 1053
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
Cleanup Standards
Development of cleanup standards at superfund sites: An evaluation of consistency, 762
Climate
A vision of clean air, 888
Surface-level ozone: Climate change and evidence for trends, 136
The total greenhouse warming potential of technical systems: analysis for decision making, 422
Climate Effects
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328
Coal Tar Pitch
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609
Coal-Burning Facilities
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592
Coal-Fired
The WHITEX study and the role of the scientific community: A critique, 1453
Coal-Fired Boilers
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
Coal-Fired Flow Facility
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466

Combustion
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488
Global emissions of nitrogen and sulfur oxides in fossil fuel combustion 1970–1986, 159
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071
Suppression of soot by metal additives during the combustion of polystyrene, 1082
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057

Community Involvement
Management principles for negotiating waste facility siting agreements, 1296

Comparisons
Comparison of spill frequencies and amounts at vapor recovery and conventional service stations in California, 284

Compliance
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
EPA's clean air act operating permit rules, 1288
The Clean Air Act: New enforcement and liability provisions, 1414

Compound Interactions
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466

Comprehensive Environmental Response and Liability Act (CERCLA)
Why did you take that sample?, 1420

Compressed Gas Cylinders
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198

Compressed Gas Standards
Accuracy assessment of EPA protocol gases purchased in 1991, 1617

Computerized On-Line Information System (COLIS)
Remediation of leaking USTs: A system for accessing case histories and related documents, 298

Concentrations
Analysis of complex mixtures of vapors in ambient air by fast-gas chromatography, 1446

Conferences
The 9th World Clean Air Congress & Exhibition, 896
Towards the year 2000: Critical issues in the global environment: A summary of the 9th World Clean Air Congress of the International Union of Air Pollution Prevention Associations, 1573

Contaminated Soil
Airborne concentrations of trivalent and hexavalent chromium from contaminated soils at unpaved and partially paved commercial/industrial sites, 40
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970
EPA's approach to development of LDR standards for contaminated soil and debris, 145
Solvent extraction processes: A survey of systems in the SITE program, 1118
1991 thermal treatment remediation industry contractor survey, 844

Continuous Emission Monitoring
Accuracy assessment of EPA protocol gases purchased in 1991, 1617

Control Strategies
Photochemical ozone creation potentials: A study of different concepts, 1152

Control Technology Department
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970
Current status of the ADVACATE process for flue gas desulfurization, 103
EPA SITE demonstration of the BioTrol soil washing process, 96
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488
Personnel protection through reconnaissance robotics at Superfund remedial sites, 341
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372
Solvent extraction processes: A survey of systems in the SITE program, 1118
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240
Waste analysis plan review advisor: An intelligent database to assist RCRA permit reviewers, 1250
1991 thermal treatment remediation industry contractor survey, 844

Costs
Flares. Part II. Capital and annual costs, 488

Critical Review
Closing remarks, 1171
Industrial pollution prevention: A critical review, 618
Invited comments, 1168, 1169, 1170
Prepared discussion, 1159, 1161, 1163, 1167

Crop Reduction
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046

Data Bases
Flow rates and compositions of incinerated waste streams in the United States, 437
Waste analysis plan review advisor: An intelligent database to assist RCRA permit reviewers, 1250

Data Collection
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186

Data Quality
Why did you take that sample?, 1420

Decision Making
Management principles for negotiating waste facility siting agreements, 1296

Department of Energy
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466

Destruction and Removal Efficiencies
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430

Developing Nations
Vehicle occupant exposure to carbon monoxide, 1603

Development
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644

Dioxin Formation
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577

Dioxin-Contaminated Material
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493

Dispersion Models
A portable system for prediction of a transient plume, 433
Dispersion of traffic and space heating emissions in urban settings, 448
Evaluation of a puff dispersion model in complex terrain, 290

Early Reduction Program
Overview of U.S. Environmental Protection Agency's Hazardous Air Pollutant Early Reduction Program, 31

Editorial Policy
Journal of the Air & Waste Management Association Editorial Policy and Author's Guide to Manuscript Preparation, 119

Electric Utilities
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110

Electronic Equipment Failure
Volatile organic compounds measured at a telephone switching center from 5/30/85 - 12/6/88: a detailed case study, 792

Emergency Response Models
A portable system for prediction of a transient plume, 433
Evaluation of a puff dispersion model in complex terrain, 290

Emerging Technology Program
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644

Emission Controls
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592
Emission characteristics of Mexico City vehicles, 1424
Ozone control strategies based on the ratio of volatile organic compounds to nitrogen oxides, 1173
The history of air pollution in York, England, 1562

Emission Inventories
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264
Source fingerprints for volatile non-methane hydrocarbons, 1437

Emission Rates
Airshed calculation of the sensitivity of pollutant formation to organic compound classes and oxygenates associated with alternative fuels, 174
Global emissions of nitrogen and sulfur oxides in fossil fuel combustion 1970–1986, 159
Practical guidance for flux chamber measurements of fugitive volatile organic emission rates, 1583

Emission Standards
Optical remote measurement of toxic gases, 18

Emissions
Air pollution emission factors for medical waste incinerators, 784
Dispersion of traffic and space heating emissions in urban settings, 448
Effects of operating variables on PAH emissions and mutagenicity of emissions from woodstoves, 691
Evaluation of a para-dichlorobenzene emissions from solid moth repellent as a source of indoor air pollution, 1214
Reactivity-based hydrocarbon controls: Scientific issues and potential regulatory applications, 657
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071
Suppression of soot by metal additives during the combustion of polystyrene, 1082
The cost of reducing emissions from late-model high-emitting vehicles detected via remote sensing CO-AUTHORS - Rueff, R. M., 921
Unsteady tall stack dispersion of chimney emissions and its application to varying wind directions, 1078

Emissions Characterization
Airborne particulate emissions from a chromic acid anodizing process tank, 303
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912

Emissions Reduction
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609
Overview of U.S. Environmental Protection Agency's Hazardous Air Pollutant Early Reduction Program, 31
Reducing the use of ozone depleting chemicals: The Irvine, California ordinance, 429
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209

Emissions Trading
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110

Emissions, Automotive
Dispersion of traffic and space heating emissions in urban settings, 448
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461
Infrared emission and remote sensing, 695
Source fingerprints for volatile non-methane hydrocarbons, 1437
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328
Vehicle occupant exposure to carbon monoxide, 1603

Emissions, Carbon Monoxide
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Emissions, Fugitive
Practical guidance for flux chamber measurements of fugitive volatile organic emission rates, 1583

Emissions, Hydrocarbon
Forest hydrocarbon emissions: relationships between fluxes and ambient concentrations, 810
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336

Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912

Emissions, Landfill Gas
Flux chamber design and operation for the measurement of municipal solid waste landfill gas emission rates, 1067

Emissions, Natural
Forest hydrocarbon emissions: relationships between fluxes and ambient concentrations, 810

Enforcement
The Clean Air Act: New enforcement and liability provisions, 1414

England
The history of air pollution in York, England, 1562

Environmental Deterioration
Air pollution monitoring in Amman, Jordan, 814
Gallup global survey finds high levels of environmental awareness and concern, 818

Environmental Law
Keeping potentially responsible parties (PRPs) out of bankruptcy courts, 259

Environmental Litigation Department
Causation becomes a factor under CERCLA, 1274
Evolving environmental law in the commonwealth of independent states, 521
Superfund liens are declared unconstitutional, 6
Superfund waste - a boon for lawyers?, 874
When government regulations go too far, 406

Environmental Trends Department
Contaminated media management: The next generation, 1402
Operating permits under the Clean Air Act, 1038

Epidemiology
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770
Synthesis of environmental evidence: Nitrogen dioxide epidemiology studies, 662

Ex Post Facto Laws
Cleanup liability and the constitution, 1614
Comments on cleanup liability and the constitution, 1617
What about ex post facto?, 944

Exposure Parameters
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046

Fabric Filters
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240

Facility Siting
Management principles for negotiating waste facility siting agreements, 1296

Federal Technology Transfer Act
EPA's federal technology transfer act program, 892

Flares
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488

Flue Gas
Limestone dissolution in flue gas scrubbing: Effect of sulfite, 926

Flue Gas Desulfurization
Current status of the ADVACATE process for flue gas desulfurization, 103
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110

Flue Gas Treatment
Flue gas NOx Reduction using ammonia radical injection, 1193

Flux Chamber Measurements
Practical guidance for flux chamber measurements of fugitive volatile organic emission rates, 1583

Fly Ash
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577
Current status of the ADVACATE process for flue gas desulfurization, 103
Effect of redox potential on leaching from stabilized/solidified waste materials, 56
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240

Forests
Forest hydrocarbon emissions: relationships between fluxes and ambient concentrations, 810
Growth response of four species of eastern hardwood tree seedlings exposed to ozone, acidic precipitation, and sulfur dioxide, 309
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345

Fossil-Fuel Fired Application
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240

Free-Air Controlled Enrichment (FACE)
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324

Fuel Efficiency Automotive Test (FEAT)
Emission characteristics of Mexico City vehicles, 1424

Fuels
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071

Fuels, Alternative
Airshed calculation of the sensitivity of pollutant formation to organic compound classes and oxygenates associated with alternative fuels, 174

Fuels, Fossil
Global emissions of nitrogen and sulfur oxides in fossil fuel combustion 1970–1986, 159

Gas Chromatography
Analysis of complex mixtures of vapors in ambient air by fast-gas chromatography, 1446

Gas Chromatography-Mass Spectrometry
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609

Gases
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198

Gasoline
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912
The cost of reducing emissions from late-model high-emitting vehicles detected via remote sensing

Gasoline Reformulation
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071

Gasoline Service Stations
Comparison of spill frequencies and amounts at vapor recovery and conventional service stations in California, 284

Gasoline Spillage
Comparison of spill frequencies and amounts at vapor recovery and conventional service stations in California, 284

Geography
Evaluation of a puff dispersion model in complex terrain, 290

Global Perspectives Department
Forging a coalition of reason, 754
Pollution prevention and its role in sustainable economic development, 1550
Responding to Rio, 1142
The European Community's Fifth Environmental Action Program, 1276
Ukraine's environment: An ecological nightmare, 882

Global Pollution
Global emissions of nitrogen and sulfur oxides in fossil fuel combustion 1970–1986, 159
Surface-level ozone: Climate change and evidence for trends, 136

Global Warming
The total greenhouse warming potential of technical systems: analysis for decision making, 422

Government Agencies Directory
Government Agencies Directory/1992, 991

Government/Industry Partnerships
EPA's federal technology transfer act program, 892

Greenhouse Effect
Flux chamber design and operation for the measurement of municipal solid waste landfill gas emission rates, 1067
Surface-level ozone: Climate change and evidence for trends, 136

Greenhouse Gases
The total greenhouse warming potential of technical systems: analysis for decision making, 422
Understanding the risks of options designed to limit greenhouse gases, 1620

Greenhouse Warming
Nitrous oxide emissions from vehicles, 63

Hazardous Air Pollutants
Optical remote measurement of toxic gases, 18
Overview of U.S. Environmental Protection Agency's Hazardous Air Pollutant Early Reduction Program, 31

Hazardous Waste
Flexible membrane liner testing in waste management, 1178
Flow rates and compositions of incinerated waste streams in the United States, 437
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336
Remediation of leaking USTs: A system for accessing case histories and related documents, 298
The behavior of arsenic in a rotary kiln incinerator, 179
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681
Why did you take that sample?, 1420

Hazardous Waste Cleanup
Cleanup liability and the constitution, 1614
Comments on cleanup liability and the constitution, 1617
What about ex post facto?, 944

Hazardous Waste Management
Management principles for negotiating waste facility siting agreements, 1296
Practical guidance for flux chamber measurements of fugitive volatile organic emission rates, 1583

Hazardous Waste Sites
Development of cleanup standards at superfund sites: An evaluation of consistency, 762

Haze
The WHITEX study and the role of the scientific community: A critique, 1453

Health Effects
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212
Structural dependence of diurnal fluctuations of radon progeny in residential buildings, 457
Suppression of soot by metal additives during the combustion of polystyrene, 1082
Synthesis of environmental evidence: Nitrogen dioxide epidemiology studies, 662
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328
Vehicle occupant exposure to carbon monoxide, 1603

Health Risks
Airborne concentrations of trivalent and hexavalent chromium from contaminated soils at unpaved and partially paved commercial/industrial sites, 40
Atmospheric concentrations of PCDDs/PCDFs in Southern California, 672
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770
Evaluation of a para-dichlorobenzene emissions from solid moth repellent as a source of indoor air pollution, 1214
Waste analysis plan review advisor: An intelligent database to assist RCRA permit reviewers, 1250

Hexavalent chromium
Airborne concentrations of trivalent and hexavalent chromium from contaminated soils at unpaved and partially paved commercial/industrial sites, 40
Airborne particulate emissions from a chromic acid anodizing process tank, 303

History
The history of air pollution in York, England, 1562

Human Exposure
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770
Photochemical pollution at two Southern California smog receptor sites, 805
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277

Human Health
A vision of clean air, 888
Development of cleanup standards at superfund sites: An evaluation of consistency, 762
Why did you take that sample?, 1420

Human Health Effects
Surface-level ozone: Climate change and evidence for trends, 136

Humidity
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063

HVAC Systems
Volatile organic compounds measured at a telephone switching center from 5/30/85 - 12/6/88: a detailed case study, 792

Hydrocarbons
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305
Emission characteristics of Mexico City vehicles, 1424
Reactivity-based hydrocarbon controls: Scientific issues and potential regulatory applications, 657
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328

Incinerability
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430
Incineration
Air pollution emission factors for medical waste incinerators, 784
Flow rates and compositions of incinerated waste streams in the United States, 437
"Fuel cleaning" and materials separation at waste-to-energy plants, 767
The behavior of arsenic in a rotary kiln incinerator, 179
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681
1991 thermal treatment remediation industry contractor survey, 844
Incinerators
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577
Incinerators, Mobile
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493
Individual Exposure
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212
Indoor Air Pollution
Evaluation of a para-dichlorobenzene emissions from solid moth repellent as a source of indoor air pollution, 1214
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277
Structural dependence of diurnal fluctuations of radon progeny in residential buildings, 457
Volatile organic compounds measured at a telephone switching center from 5/30/85 - 12/6/88: a detailed case study, 792
Industrial Pollution
Industrial pollution prevention: A critical review, 618
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936
Industrialization
A vision of clean air, 888
Innovative Technologies
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
Industrial pollution prevention: A critical review, 618
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644
Inspection/Maintenance
The cost of reducing emissions from late-model high-emitting vehicles detected via remote sensing, 921
International Aspects
Selected international receptor-based air quality standards, 1567
Towards the year 2000: Critical issues in the global environment: A summary of the 9th World Clean Air Congress of the International Union of Air Pollution Prevention Associations, 1573
Irvine, California
Reducing the use of ozone depleting chemicals: The Irvine, California ordinance, 429
IUAPPA
IUAPPA Declaration on Pollution Prevention, 755
The 9th World Clean Air Congress & Exhibition, 896
Towards the year 2000: Critical issues in the global environment: A summary of the 9th World Clean Air Congress of the International Union of Air Pollution Prevention Associations, 1573
Lake Michigan
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
Land Disposal Restrictions
EPA's approach to development of LDR standards for contaminated soil and debris, 145
Landfills
Flexible membrane liner testing in waste management, 1178
Flux chamber design and operation for the measurement of municipal solid waste landfill gas emission rates, 1067
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277
Leaching
Effect of redox potential on leaching from stabilized/solidified waste materials, 56
Leaching boundary movement in solidified/stabilized waste forms, 164
Lead-Acid Battery Recycling Sites
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970
Leaking Underground Storage Tanks
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305
Remediation of leaking USTs: A system for accessing case histories and related documents, 298
Legal Briefs Department
Aluli v. Lewin, 1717
Coalition for Clean Air v. Environmental Protection Agency, 1027
Commonwealth of Pennsylvania, Department of Environmental Resources v. Environmental Protection Agency and William K. Reilly, Administrator, 865
Environmental Defence Fund, Inc., v. Wheelabrator Technologies , Inc., 509
H. Douglas Miller v. Campbell County, 1263
National Environmental Services Corporation v. The Pollution Control Board and Illinois Environmental Protection Agency, 395
Newbay Corporation v. Annarummo (the director), 118
South Coast Air Quality Management District v. Security Environment Systems, Inc., 233
The People of The State of New York v. Allied Health Care Products, Inc., 1539
Town of Preston v. Department of Environmental Protection, 1393
United States v. Economy Muffler and Tire Center, 743
W. J. Anthony, Director of the California Department of General Services v. Arthur Blech, etc., et al., 1133
Legislation
A vision of clean air, 888
Cleanup liability and the constitution, 1614
Comments on cleanup liability and the constitution, 1617
Flow rates and compositions of incinerated waste streams in the United States, 437
Industrial pollution prevention: A critical review, 618
Reducing the use of ozone depleting chemicals: The Irvine, California ordinance, 429
The Clean Air Act: New enforcement and liability provisions, 1414
The OTC challenge: Adding VOC and NOx controls in the Northeast, 1053
What about ex post facto?, 944
Liability
Cleanup liability and the constitution, 1614
Comments on cleanup liability and the constitution, 1617
The Clean Air Act: New enforcement and liability provisions, 1414
What about ex post facto?, 944
Limestone Scrubbing
Limestone dissolution in flue gas scrubbing: Effect of sulfite, 926
Liners
Flexible membrane liner testing in waste management, 1178
Magnetohydrodynamics System
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466
Market Analysis
Global air pollution control in 1992 and its relationship to the solid waste industry, 254
Materials Separation
"Fuel cleaning" and materials separation at waste-to-energy plants, 767
Measurement Techniques
A passive sampler for atmospheric ozone, 169
Measurements
Accuracy assessment of EPA protocol gases purchased in 1991, 1617
Field measurements of dry deposition compounds using the transition flow reactor, 36
Medical Waste
Air pollution emission factors for medical waste incinerators, 784
Meta-Analysis
Synthesis of environmental evidence: Nitrogen dioxide epidemiology studies, 662
Meteorological Conditions
Statistical analysis of trends in urban ozone air quality, 1204
Meteorological Effects
Unsteady tall stack dispersion of chimney emissions and its application to varying wind directions, 1078
Metropolitan Areas
Statistical analysis of trends in urban ozone air quality, 1204
Mexico
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186
Mexico City
Emission characteristics of Mexico City vehicles, 1424
Microcomputer Software Reviews
@Risk for Lotus 1-2-3, Version 2.0, 817
A preview of A&WMA's on-line information system, 1392
Breeze Air ISCST Version 2.05, 393
Edifice Version 1.0, 518
Jumbo 250 Tape Backup System, 16
LOLI, Version 1.551, 187
Minitab Release 8, 1148
Opaci-Calc 3.1, 1560
RegScan 4.0, 955
1992 Environmental Software Survey, 1515
Middle East
Air pollution monitoring in Amman, Jordan, 814
Mitigation
Why did you take that sample?, 1420
Mobile Sources
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264
Dispersion of traffic and space heating emissions in urban settings, 448
Infrared emission and remote sensing, 695
Measurements of VOCs from the TAMS network, 1319
Reactivity-based hydrocarbon controls: Scientific issues and potential regulatory applications, 657
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328
Modeling
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
Airshed calculation of the sensitivity of pollutant formation to organic compound classes and oxygenates associated with alternative fuels, 174
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681
Monitoring
Air pollution monitoring in Amman, Jordan, 814
Analysis of complex mixtures of vapors in ambient air by fast-gas chromatography, 1446
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609
Infrared emission and remote sensing, 695
Measurements of VOCs from the TAMS network, 1319
Optical remote measurement of toxic gases, 18
Photochemical pollution at two Southern California smog receptor sites, 805
Selected international receptor-based air quality standards, 1567
Structural dependence of diurnal fluctuations of radon progeny in residential buildings, 457
Mothcakes
Evaluation of a para-dichlorobenzene emissions from solid moth repellent as a source of indoor air pollution, 1214
Motor Vehicles
Air pollution monitoring in Amman, Jordan, 814
Emission characteristics of Mexico City vehicles, 1424
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057
Municipal Solid Waste
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577

Flux chamber design and operation for the measurement of municipal solid waste landfill gas emission rates, 1067
"Fuel cleaning" and materials separation at waste-to-energy plants, 767

Mutagenicity
Effects of operating variables on PAH emissions and mutagenicity of emissions from woodstoves, 691

National Acid Precipitation Assessment Program (NAPAP)
NAPAP releases plan for future activities along with results of original mandate, 188

Navajo Generating Station
The WHITEX study and the role of the scientific community: A critique, 1453

Negotiation
Management principles for negotiating waste facility siting agreements, 1296

News Focus Department
Administration pledges halt to production of ozone depleting substances before 1996, 464
Administrations FY 1993 budget for EPA includes $2.7 billion for operating programs, 312
EPA announces final rules regarding state air pollution permit programs, 1090
EPA announces final rules regarding state air pollution permit programs, 1476
EPA announces first rules under CAAA to control offshore air pollution, 1350
EPA releases 18th annual air quality trends report, 72
Gallup global survey finds high levels of environmental awareness and concern, 818
NAPAP releases plan for future activities along with results of original mandate, 188
Understanding the risks of options designed to limit greenhouse gases, 1620
UNEP, WMO, NOAA, NASA publish recent findings related to stratospheric ozone, 698
WRI identifies environmentally critical technologies; calls for U.S. policy shift, 1218
1990 toxics release inventory data continue downward trend, 946

Newsletters
EPRI Newsletter, 130, 530, 1045, 1412
ICAC (formerly IGCI) Newsletter, 14, 408, 886, 1286
MVMA Newsletter, 250, 760, 1151, 1558
Report from Canada, 128, 404, 752, 1036, 1272, 1548
Washington Report, 4, 126, 402, 516, 750, 872, 1034, 1270, 1400, 1546

Nitrogen Dioxide
Synthesis of environmental evidence: Nitrogen dioxide epidemiology studies, 662

Nitrogen Oxides
Flue gas NOx Reduction using ammonia radical injection, 1193
Global emissions of nitrogen and sulfur oxides in fossil fuel combustion 1970–1986, 159
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498
Ozone control strategies based on the ratio of volatile organic compounds to nitrogen oxides, 1173
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F) Part I, 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328

Nitrous Oxide
Nitrous oxide emissions from vehicles, 63

Non-Azeotropic Refrigerant Mixtures (NARMS)
EPA's research projects relating to the dual-circuit and Lorenz refrigerator/freezers, 68

Non-methane Hydrocarbons
Source fingerprints for volatile non-methane hydrocarbons, 1437

Nonattainment
Ozone control strategies based on the ratio of volatile organic compounds to nitrogen oxides, 1173
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Non-methane Organic Gases
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264

Northeast Region
The OTC challenge: Adding VOC and NOx controls in the Northeast, 1053

Oil Burning Furnaces
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057

Opacity Readings
Individual accuracy in estimating plume opacity, 443

Operating Permits
EPA's clean air act operating permit rules, 1288

Operating Variables
Effects of operating variables on PAH emissions and mutagenicity of emissions from woodstoves, 691
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Organic Mutagens
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49

Orlando, Florida
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461

Oxidation-Reduction (Redox) Potential
Effect of redox potential on leaching from stabilized/solidified waste materials, 56

Oxygen Combustion System
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493

Ozone
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
Airshed calculation of the sensitivity of pollutant formation to organic compound classes and oxygenates associated with alternative fuels, 174
Growth response of four species of eastern hardwood tree seedlings exposed to ozone, acidic precipitation, and sulfur dioxide, 309
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046
Ozone control strategies based on the ratio of volatile organic compounds to nitrogen oxides, 1173
Photochemical pollution at two Southern California smog receptor sites, 805
Reactivity-based hydrocarbon controls: Scientific issues and potential regulatory applications, 657
Reducing the use of ozone depleting chemicals: The Irvine, California ordinance, 429
Statistical analysis of trends in urban ozone air quality, 1204
Surface-level ozone: Climate change and evidence for trends, 136
The OTC challenge: Adding VOC and NOx controls in the Northeast, 1053

Ozone Formation
Comparison of spill frequencies and amounts at vapor recovery and conventional service stations in California, 284

Ozone Transport Commission
The OTC challenge: Adding VOC and NOx controls in the Northeast, 1053

Ozone, Atmospheric
A passive sampler for atmospheric ozone, 169

Ozone, Formation
Photochemical ozone creation potentials: A study of different concepts, 1152

Ozone, Stratospheric
Simulation results of single refrigerants for use in a dual-circuit refrigerator/freezer, 185
UNEP, WMO, NOAA, NASA publish recent findings related to stratospheric ozone, 698

Para-dichlorobenzene
Evaluation of a para-dichlorobenzene emissions from solid moth repellent as a source of indoor air pollution, 1214

Particulate Emissions Characterization
Airborne particulate emissions from a chromic acid anodizing process tank, 303

Particulate Properties
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592

Passive Samplers
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212

PCPs
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724

Permitting
EPA announces final rules regarding state air pollution permit programs, 1090
EPA announces final rules regarding state air pollution permit programs, 1476
EPA's clean air act operating permit rules, 1288
"Fuel cleaning" and materials separation at waste-to-energy plants, 767
Waste analysis plan review advisor: An intelligent database to assist RCRA permit reviewers, 1250

Personnel Protection
Personnel protection through reconnaissance robotics at Superfund remedial sites, 341

Petroleum Refinery Emissions
Source fingerprints for volatile non-methane hydrocarbons, 1437

Photochemical Oxidents
Source fingerprints for volatile non-methane hydrocarbons, 1437

Photochemical Ozone Creation Potentials
Photochemical ozone creation potentials: A study of different concepts, 1152

Photochemical Pollutants
Photochemical pollution at two Southern California smog receptor sites, 805

Plant Response
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063

Plasma Systems
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372

Plumes
A portable system for prediction of a transient plume, 433
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313
Individual accuracy in estimating plume opacity, 443
Photochemical pollution at two Southern California smog receptor sites, 805

PM-10
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Polar Organic Compounds
Temporal stability of polar organic compounds in stainless steel canisters, 460

Policy Decision Making
Air pollution emission factors for medical waste incinerators, 784
Development of cleanup standards at superfund sites: An evaluation of consistency, 762
The total greenhouse warming potential of technical systems: analysis for decision making, 422

Pollutant Concentration
Air pollution emission factors for medical waste incinerators, 784

Pollution Control Equipment
Global air pollution control in 1992 and its relationship to the solid waste industry, 254

Pollution Prevention
Industrial pollution prevention: A critical review, 618
IUAPPA Declaration on Pollution Prevention, 755

Polychlorinated Dibenzo Furans (PCDFs)
Atmospheric concentrations of PCDDs/PCDFs in Southern California, 672

Polychlorinated Dibenzo-p-dioxins (PCDD)
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577

Polychlorinated Dioxins (PCDDs)
Atmospheric concentrations of PCDDs/PCDFs in Southern California, 672

Polycyclic Aromatic Hydrocarbons
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609

Polystyrene
Suppression of soot by metal additives during the combustion of polystyrene, 1082

Postcombustion
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498

Potassium
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466

Potentially Responsible Parties
Keeping potentially responsible parties (PRPs) out of bankruptcy courts, 259

Power Plants
Evaluation of a puff dispersion model in complex terrain, 290
The WHITEX study and the role of the scientific community: A critique, 1453

Precipitation
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345

Principal Organic Hazardous Constituents
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430

Product Guide
Product Guide/1992, 359

Public Health
Individual accuracy in estimating plume opacity, 443
Synthesis of environmental evidence: Nitrogen dioxide epidemiology studies, 662

Pulse Flame Combustors
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912

Questionnaire
Air, waste and environmental management research faculty profile questionnaire, 225
Radon
Structural dependence of diurnal fluctuations of radon progeny in residential buildings, 457
Ranking Systems
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430
Refinery Wastewater
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336
Refrigerator/Freezers
EPA's research projects relating to the dual-circuit and Lorenz refrigerator/freezers, 68
Simulation results of single refrigerants for use in a dual-circuit refrigerator/freezer, 185
Regulation
EPA's clean air act operating permit rules, 1288
Reactivity-based hydrocarbon controls: Scientific issues and potential regulatory applications, 657
The history of air pollution in York, England, 1562
Remediation
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970
EPA SITE demonstration of the BioTrol soil washing process, 96
Practical guidance for flux chamber measurements of fugitive volatile organic emission rates, 1583
Remediation of leaking USTs: A system for accessing case histories and related documents, 298
1991 thermal treatment remediation industry contractor survey, 844
Remote Sensing
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186
Emission characteristics of Mexico City vehicles, 1424
Infrared emission and remote sensing, 695
Optical remote measurement of toxic gases, 18
The cost of reducing emissions from late-model high-emitting vehicles detected via remote sensing CO-AUTHORS - Rueff, R. M., 921
Research and Development
EPA's federal technology transfer act program, 892
Flexible membrane liner testing in waste management, 1178
Residences
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277
Structural dependence of diurnal fluctuations of radon progeny in residential buildings, 457
Resource Conservation and Recovery Act (RCRA)
Cleanup liability and the constitution, 1614
Comments on cleanup liability and the constitution, 1617
EPA's approach to development of LDR standards for contaminated soil and debris, 145
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936
Respiratory Health
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770
Retrofits
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498
Roadways
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461
Robotics
Personnel protection through reconnaissance robotics at Superfund remedial sites, 341
Rotary Kiln
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681
Rural Sites
Field measurements of dry deposition compounds using the transition flow reactor, 36
Forest hydrocarbon emissions: relationships between fluxes and ambient concentrations, 810
Growth response of four species of eastern hardwood tree seedlings exposed to ozone, acidic precipitation, and sulfur dioxide, 309
Samarium
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057
Sample Handling Protocols
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49
Samplers, Mobile
A portable system for prediction of a transient plume, 433
Sampling
A passive sampler for atmospheric ozone, 169
Atmospheric concentrations of PCDDs/PCDFs in Southern California, 672
Forest hydrocarbon emissions: relationships between fluxes and ambient concentrations, 810
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345
Why did you take that sample?, 1420
Sampling, Passive
Temporal stability of polar organic compounds in stainless steel canisters, 460
Science/Policy Integration
A vision of clean air, 888
Scientific Integrity
The WHITEX study and the role of the scientific community: A critique, 1453
Scrubbers
Limestone dissolution in flue gas scrubbing: Effect of sulfite, 926
Seasonal Effects
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328
Secondary Standard
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046
SITE Program
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
SITE Program Demonstration
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970
Solvent extraction processes: A survey of systems in the SITE program, 1118
Smoke Abatement
The history of air pollution in York, England, 1562
Software Products
1992 Environmental Software Survey, 1515
Soil
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372
Soil-Gas
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277
Soil Washing
EPA SITE demonstration of the BioTrol soil washing process, 96
Solid Waste
Effect of redox potential on leaching from stabilized/solidified waste materials, 56
Global air pollution control in 1992 and its relationship to the solid waste industry, 254
Solvent Extraction
Solvent extraction processes: A survey of systems in the SITE program, 1118
Soot
Suppression of soot by metal additives during the combustion of polystyrene, 1082
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057
Sorbent Injection
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592
Source Profiles
Source fingerprints for volatile non-methane hydrocarbons, 1437
South Coast Air Basin
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264
Stability
Temporal stability of polar organic compounds in stainless steel canisters, 460
Stabilization/Solidification
Leaching boundary movement in solidified/stabilized waste forms, 164
Stack Height
Unsteady tall stack dispersion of chimney emissions and its application to varying wind directions, 1078
Stationary Sources
Flue gas NOx Reduction using ammonia radical injection, 1193
Ozone control strategies based on the ratio of volatile organic compounds to nitrogen oxides, 1173
Steam Stripping
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936
Stratospheric Ozone Depletion
Nitrous oxide emissions from vehicles, 63
Stress Factors
Flexible membrane liner testing in waste management, 1178
Sulfite
Limestone dissolution in flue gas scrubbing: Effect of sulfite, 926
Sulfur
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466
Sulfur Dioxide
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324
Growth response of four species of eastern hardwood tree seedlings exposed to ozone, acidic precipitation, and sulfur dioxide, 309
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110
Sulfur Oxides
Global emissions of nitrogen and sulfur oxides in fossil fuel combustion 1970–1986, 159
Superfund
Cleanup liability and the constitution, 1614
Comments on cleanup liability and the constitution, 1617
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970
Development of cleanup standards at superfund sites: An evaluation of consistency, 762
Personnel protection through reconnaissance robotics at Superfund remedial sites, 341
1991 thermal treatment remediation industry contractor survey, 844
Superfund Innovative Technology Evaluation (SITE)
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644
Surveys
Selected international receptor-based air quality standards, 1567
1991 thermal treatment remediation industry contractor survey, 844
1992 Environmental Software Survey, 1515
Sustainable Development
Towards the year 2000: Critical issues in the global environment: A summary of the 9th World Clean Air Congress of the International Union of Air Pollution Prevention Associations, 1573
Tailpipe Emission Measurements
Nitrous oxide emissions from vehicles, 63
Technology Development
EPA's federal technology transfer act program, 892
WRI identifies environmentally critical technologies; calls for U.S. policy shift, 1218
Temperature
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345
Testing
Flexible membrane liner testing in waste management, 1178
Texas
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186
Thermal Treatment
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430

Toluene
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Total Persistence Factor
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461

Toxic Air Monitoring System (TAMS)
Measurements of VOCs from the TAMS network, 1319

Toxic Air Pollutants
Photochemical pollution at two Southern California smog receptor sites, 805

Toxic Gases
Optical remote measurement of toxic gases, 18

Toxic Metals
The behavior of arsenic in a rotary kiln incinerator, 179

Toxic Wastes
Personnel protection through reconnaissance robotics at Superfund remedial sites, 341

Toxicology
Why did you take that sample?, 1420

Toxics
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
Flow rates and compositions of incinerated waste streams in the United States, 437

Tracer Techniques
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336

Tracers
The WHITEX study and the role of the scientific community: A critique, 1453

Traffic
Vehicle occupant exposure to carbon monoxide, 1603

Training
Individual accuracy in estimating plume opacity, 443

Transition Flow Reactor
Field measurements of dry deposition compounds using the transition flow reactor, 36

Treatment Technologies
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345
EPA's approach to development of LDR standards for contaminated soil and debris, 145
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644

Treatment, Storage and Disposal
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336

Trend Analysis
Statistical analysis of trends in urban ozone air quality, 1204

Trial Burns
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198

Trivalent Chromium
Airborne concentrations of trivalent and hexavalent chromium from contaminated soils at unpaved and partially paved commercial/industrial sites, 40

U.S. Borders
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186

U.S. Environmental Protection Agency
Accuracy assessment of EPA protocol gases purchased in 1991, 1617
Administration pledges halt to production of ozone depleting substances before 1996, 464
Administrations FY 1993 budget for EPA includes $2.7 billion for operating programs, 312
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970
EPA's approach to development of LDR standards for contaminated soil and debris, 145
EPA's clean air act operating permit rules, 1288
EPA's federal technology transfer act program, 892
EPA's research projects relating to the dual-circuit and Lorenz refrigerator/freezers, 68
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493
"Fuel cleaning" and materials separation at waste-to-energy plants, 767
Industrial pollution prevention: A critical review, 618
Overview of U.S. Environmental Protection Agency's Hazardous Air Pollutant Early Reduction Program, 31
Ozone control strategies based on the ratio of volatile organic compounds to nitrogen oxides, 1173
Remediation of leaking USTs: A system for accessing case histories and related documents, 298
Simulation results of single refrigerants for use in a dual-circuit refrigerator/freezer, 185
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372
Solvent extraction processes: A survey of systems in the SITE program, 1118
The Clean Air Act: New enforcement and liability provisions, 1414
Waste analysis plan review advisor: An intelligent database to assist RCRA permit reviewers, 1250
1990 toxics release inventory data continue downward trend, 946
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644

United Nations
IUAPPA Declaration on Pollution Prevention, 755

Urban Air
Measurements of VOCs from the TAMS network, 1319

Urban Areas
Vehicle occupant exposure to carbon monoxide, 1603

Urban Pollution
Dispersion of traffic and space heating emissions in urban settings, 448
Photochemical pollution at two Southern California smog receptor sites, 805

Utilities
Flue gas NOx Reduction using ammonia radical injection, 1193
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240

Utility Boilers
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498

Vapor Extraction
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345

Vapor Recovery
Comparison of spill frequencies and amounts at vapor recovery and conventional service stations in California, 284

Vapors
Analysis of complex mixtures of vapors in ambient air by fast-gas chromatography, 1446

Vegetation
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046

Vehicular Emissions
Nitrous oxide emissions from vehicles, 63

Ventilation
Volatile organic compounds measured at a telephone switching center from 5/30/85 - 12/6/88: a detailed case study, 792

Visible Emissions
Individual accuracy in estimating plume opacity, 443

Vitrification
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372

Volatile Organic Compounds
Analysis of complex mixtures of vapors in ambient air by fast-gas chromatography, 1446
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488
Measurements of VOCs from the TAMS network, 1319
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936
Temporal stability of polar organic compounds in stainless steel canisters, 460
Volatile organic compounds measured at a telephone switching center from 5/30/85 - 12/6/88: a detailed case study, 792

Waste Disposal
Industrial pollution prevention: A critical review, 618

Waste Management
Air pollution emission factors for medical waste incinerators, 784
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724
Development of cleanup standards at superfund sites: An evaluation of consistency, 762
Flexible membrane liner testing in waste management, 1178
Flux chamber design and operation for the measurement of municipal solid waste landfill gas emission rates, 1067
Industrial pollution prevention: A critical review, 618
Keeping potentially responsible parties (PRPs) out of bankruptcy courts, 259
Leaching boundary movement in solidified/stabilized waste forms, 164
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936
The behavior of arsenic in a rotary kiln incinerator, 179
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681
Waste analysis plan review advisor: An intelligent database to assist RCRA permit reviewers, 1250

Waste Management News
Appeals court rules on final NSPS for municipal waste combustors, 1144
Burning used oil tagged as top source of airborne lead emissions, 8
California insurers must provide broad coverage for hazardous waste damages, 524
EPA proposes alternatives for excluding low-risk wastes from stringent controls, 756
Federal appeals court overturns two key elements of RCRA regulations, 132
MRF study shows processing costs of recyclables exceed revenues, 1552
New municipal solid waste data show increase in recycling and incineration, 1280
Plastic waste processing technologies and equipment to experience sizable growth, 416
Recycling plus waste-to-energy helps communities to achieve self-sufficiency, 1404
Superfund sites involve more local governments than previously estimated, 242

Waste Site Operations
Keeping potentially responsible parties (PRPs) out of bankruptcy courts, 259

Waste Stream
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488

Waste Stream Treatment
EPA SITE demonstration of the BioTrol soil washing process, 96

Waste Treatment
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372

Waste, Cement-Based
Leaching boundary movement in solidified/stabilized waste forms, 164

Wind Conditions
Unsteady tall stack dispersion of chimney emissions and its application to varying wind directions, 1078

Wind Effects
A portable system for prediction of a transient plume, 433

Winter Haze Intensive Tracer Experiment
The WHITEX study and the role of the scientific community: A critique, 1453

Wood Burning
Effects of operating variables on PAH emissions and mutagenicity of emissions from woodstoves, 691
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Wood Treating
EPA SITE demonstration of the BioTrol soil washing process, 96

World Health Organization
Selected international receptor-based air quality standards, 1567

AUTHOR INDEX

Adams, C. J.
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063

Albritton, J. R.
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198

Al-Dhowalia, K. H.
Vehicle occupant exposure to carbon monoxide, 1603

Al-Hasaan, A. A.
Air pollution monitoring in Amman, Jordan, 814

Allaire, M.
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609

Allen, D. T.
Flow rates and compositions of incinerated waste streams in the United States, 437
Prepared discussion, 1159

Altwicker, E.
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577

Anderson, G. W.
Individual accuracy in estimating plume opacity, 443

Anderson, K. R.
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770

Anderson, R. W.
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912

Andersson-Skold, Y.
Photochemical ozone creation potentials: A study of different concepts, 1152

Aneja, V. P.
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345

Avol, E. L.
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770

Babst, C. R., III
Operating permits under the Clean Air Act, 1038

Bamesberger, W. L.
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336

Bare, J. C.
EPA's research projects relating to the dual-circuit and Lorenz refrigerator/freezers, 68
Simulation results of single refrigerants for use in a dual-circuit refrigerator/freezer, 185

Barkley, N. P.
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644

Bates, E. R
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724

Baugh, D. E.
The total greenhouse warming potential of technical systems: analysis for decision making, 422

Beaton, S. P.
Emission characteristics of Mexico City vehicles, 1424

Beck, W. B.
Prepared discussion, 1167

Behmanesh, N.
Flow rates and compositions of incinerated waste streams in the United States, 437

Belba, V. H.
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209

Bennett, C. L.
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264

Berkley, R.
Analysis of complex mixtures of vapors in ambient air by fast-gas chromatography, 1446

Billick, I. H.
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212

Bishop, G. A.
Emission characteristics of Mexico City vehicles, 1424
Infrared emission and remote sensing, 695

Bishop, P. L.
Effect of redox potential on leaching from stabilized/solidified waste materials, 56
Leaching boundary movement in solidified/stabilized waste forms, 164

Booth, P. N
Development of cleanup standards at superfund sites: An evaluation of consistency, 762

Bowler, C.
The history of air pollution in York, England, 1562

Boyle, J.
Flue gas NOx Reduction using ammonia radical injection, 1193

Brimblecombe, P.
The history of air pollution in York, England, 1562

Brooks, L. R.
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49

Brown, M. S.
Reducing the use of ozone depleting chemicals: The Irvine, California ordinance, 429

Brundtland, G. H.
Forging a coalition of reason, 754

Brunet, P. F.
Air pollution monitoring in Amman, Jordan, 814

Burton, C.
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152

Burton, R. M.
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49

Bush, P. V.
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592

Bustard, C. J.
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240

Calland, D. A.
Contaminated media management: The next generation, 1402
Evolving environmental law in the commonwealth of independent states, 521

Carroll, G. J.
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430

Chang, J. C. S.
Evaluation of a para-dichlorobenzene emissions from solid moth repellent as a source of indoor air pollution, 1214

Chang, R. L.
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240

Cheng, K. Y.
Leaching boundary movement in solidified/stabilized waste forms, 164

Chou, G. P.
EPA's approach to development of LDR standards for contaminated soil and debris, 145

Chun, W.
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071

Chung, S.-L.
Suppression of soot by metal additives during the combustion of polystyrene, 1082

Cichanowicz, J. E.
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498

Cochran, L. S.
Selected international receptor-based air quality standards, 1567

Cook, D. R.
A portable system for prediction of a transient plume, 433

Cooper, C. D.
Air pollution emission factors for medical waste incinerators, 784
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461

Cooper, D. C.
Flux chamber design and operation for the measurement of municipal solid waste landfill gas emission rates, 1067

Coppedge, E. A.
Accuracy assessment of EPA protocol gases purchased in 1991, 1617

Coulter, R. L.
A portable system for prediction of a transient plume, 433

Croes, B. E.
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264
Reactivity-based hydrocarbon controls: Scientific issues and potential regulatory applications, 657

Cudahy, J. J.
1991 thermal treatment remediation industry contractor survey, 844

Cundy, V. A.
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Curran, M. A.
Industrial pollution prevention: A critical review, 618

Cushing, K. M.
The potential of pulse-jet baghouses for utility boilers. Part 2. Performance of pulse-jet fabric filter pilot plants, 1240

Dahlin, R. S.
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592

Daisey, J. M.
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277

Dalton, S. M.
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110

Daniel, J.
Overview of U.S. Environmental Protection Agency's Hazardous Air Pollutant Early Reduction Program, 31

Dann, T. F.
Air pollution monitoring in Amman, Jordan, 814

Dasch, J. M.
Nitrous oxide emissions from vehicles, 63

Davis, D. D.
Growth response of four species of eastern hardwood tree seedlings exposed to ozone, acidic precipitation, and sulfur dioxide, 309

Davis, J. W.
Individual accuracy in estimating plume opacity, 443

Davis, M. L.
EPA's approach to development of LDR standards for contaminated soil and debris, 145

Dean, P. V.
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724

Dellinger, B.
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430

Deng, X. X.
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Dignon, J.
Global emissions of nitrogen and sulfur oxides in fossil fuel combustion 1970–1986, 159

Doskey, P. V.
Source fingerprints for volatile non-methane hydrocarbons, 1437

Drummond, C. J.
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110

Dusing, D. C.
Effect of redox potential on leaching from stabilized/solidified waste materials, 56

Economopoulos, A. P.
Dispersion of traffic and space heating emissions in urban settings, 448

Eddy, D. M.
Synthesis of environmental evidence: Nitrogen dioxide epidemiology studies, 662

Edwards, S. A.
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770

Eklund, B.
Practical guidance for flux chamber measurements of fugitive volatile organic emission rates, 1583

Ellington, R. T.
The total greenhouse warming potential of technical systems: analysis for decision making, 422

Elliott, E. D.
The Clean Air Act: New enforcement and liability provisions, 1414

Ellis, W. D.
EPA SITE demonstration of the BioTrol soil washing process, 96

English, M.
A vision of clean air, 888

Eskinazi, D.
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498

Esper, G. A.
MVMA Newsletter, 250, 760, 1151, 1558

Esposito, C.
Personnel protection through reconnaissance robotics at Superfund remedial sites, 341

Eudy, L.
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328

Evans, G. F.
Measurements of VOCs from the TAMS network, 1319
Temporal stability of polar organic compounds in stainless steel canisters, 460

Evans, L. B.
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488

Evans, L. S.
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324

Falerios, M.
Airborne concentrations of trivalent and hexavalent chromium from contaminated soils at unpaved and partially paved commercial/industrial sites, 40

Feister, U.
Surface-level ozone: Climate change and evidence for trends, 136

Foecke, T.
Prepared discussion, 1161

Foley, J. K.
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046

Fournier, Jr., D.
The behavior of arsenic in a rotary kiln incinerator, 179

Fradkin, L.
EPA's federal technology transfer act program, 892

Frank, U.
Personnel protection through reconnaissance robotics at Superfund remedial sites, 341

Freeman, H. M.
Closing remarks, 1171
Industrial pollution prevention: A critical review, 618

Freilich, I. M.
Causation becomes a factor under CERCLA, 1274
Superfund liens are declared unconstitutional, 6
Superfund waste - a boon for lawyers?, 874
When government regulations go too far, 406

Friar, R. S.
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609

Fricker, R. L.
Comparison of spill frequencies and amounts at vapor recovery and conventional service stations in California, 284

Friedland, D. M.
Cleanup liability and the constitution, 1614

Fujita, E. M.
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264

Gage, C. L.
Limestone dissolution in flue gas scrubbing: Effect of sulfite, 926

Gaire, R.
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970

Garbesi, K.
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277

Gatchett, A. M.
EPA's federal technology transfer act program, 892

Goldman, A. V.
The Clean Air Act: New enforcement and liability provisions, 1414

Goldsmith, P.
Flexible membrane liner testing in waste management, 1178

Grant, W. B.
Optical remote measurement of toxic gases, 18

Grennfelt, P.
Photochemical ozone creation potentials: A study of different concepts, 1152

Griffiths, R. A.
Remediation of leaking USTs: A system for accessing case histories and related documents, 298

Grosjean, D.
A passive sampler for atmospheric ozone, 169
Photochemical pollution at two Southern California smog receptor sites, 805

Grubb, W. T.
The potential of pulse-jet baghouses for utility boilers. Part 1: A worldwide survey of users, 209

Guidotti, T.
A vision of clean air, 888

Gullet, B. K.
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110

Hackney, J. D.
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770

Hadley, P. W.
Why did you take that sample?, 1420

Hagen, P. E.
Cleanup liability and the constitution, 1614

Hall, B. W.
Current status of the ADVACATE process for flue gas desulfurization, 103

Hamberg, G. L.
Keeping potentially responsible parties (PRPs) out of bankruptcy courts, 259

Hameed, S.
Global emissions of nitrogen and sulfur oxides in fossil fuel combustion 1970–1986, 159

Hart, A.
Reducing the use of ozone depleting chemicals: The Irvine, California ordinance, 429

Harten, T.
Industrial pollution prevention: A critical review, 618

Hassan, S. Q.
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936

Hasselblad, V. C.
Synthesis of environmental evidence: Nitrogen dioxide epidemiology studies, 662

Heinsohn, R. J.
Individual accuracy in estimating plume opacity, 443

Hendrey, G. R.
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324

Henig, Y. I.
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912

Henry, R.
Statistical analysis of trends in urban ozone air quality, 1204

Hillger, R. W.
Remediation of leaking USTs: A system for accessing case histories and related documents, 298

Hinchee, R. E.
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305

Hirschhorn, J. S.
Invited Comments, 1170

Hisham, M. W. M.
A passive sampler for atmospheric ozone, 169

Ho, M.-D.
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493

Hodgson, A. T.
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277

Hoffman, A. J.
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49

Holmes, J. R.
Reactivity-based hydrocarbon controls: Scientific issues and potential regulatory applications, 657

Horowitz, A. B.
The Clean Air Act: New enforcement and liability provisions, 1414

House, D.E.
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49

Howard, T.
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336

Hunt, G. T.
Atmospheric concentrations of PCDDs/PCDFs in Southern California, 672

Jaasma, D. R.
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Jacobson, M. A.
Development of cleanup standards at superfund sites: An evaluation of consistency, 762

Jakway, A. L.
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Jayanty, R. K. M.
Accuracy assessment of EPA protocol gases purchased in 1991, 1617
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198
Temporal stability of polar organic compounds in stainless steel canisters, 460

Jessop, T.
Infrared emission and remote sensing, 695

Johnson, S. M.
@Risk for Lotus 1-2-3, Version 2.0, 817
A preview of A&WMA's on-line information system, 1392
Breeze Air ISCST Version 2.05, 393
Edifice Version 1.0, 518
Jumbo 250 Tape Backup System, 16
LOLI, Version 1.551, 187
Minitab Release 8, 1148
Opaci-Calc 3.1, 1560
RegScan 4.0, 955
1992 Environmental Software Survey, 1515

Jordan, G. H.
Comparison of spill frequencies and amounts at vapor recovery and conventional service stations in California, 284

Jozewicz, W.
Current status of the ADVACATE process for flue gas desulfurization, 103

Kagann, R. H.
Optical remote measurement of toxic gases, 18

Kaiser, E. W.
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912

Kats, G.
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063

Ke, H.
Analysis of complex mixtures of vapors in ambient air by fast-gas chromatography, 1446

Keener, T. C.
Effect of redox potential on leaching from stabilized/solidified waste materials, 56

Kelly, W. R.
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057

Khalil, M. A. K.
Forest hydrocarbon emissions: relationships between fluxes and ambient concentrations, 810

Kim, D.-S.
Microphysical effect on cloud water acidity: A case study in a nonprecipitating cloud event observed at Mt. Mitchell, North Carolina, 1345

Klee, Jr., H.
Prepared discussion, 1163

Klich, I.
Chemical stabilization of mixed organics and metal compounds: EPA SITE program demonstration of the Silicate Technology Corporation process, 724

Knapp, K. T.
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328

Kokkinos, A.
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498

Kolber, Z.
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324

Kolluri, R.
A model to analyze formation of dioxins in the high temperature regions of municipal solid waste incinerators, 1577

Korsog, P. E.
Ozone control strategies based on the ratio of volatile organic compounds to nitrogen oxides, 1173

Kotchmar, D. J.
Synthesis of environmental evidence: Nitrogen dioxide epidemiology studies, 662

Koushki, P. A.
Vehicle occupant exposure to carbon monoxide, 1603

Kovacs, E.
Selected international receptor-based air quality standards, 1567

Krebs, K. A.
Evaluation of a para-dichlorobenzene emissions from solid moth repellent as a source of indoor air pollution, 1214

Lai, N.-L.
Suppression of soot by metal additives during the combustion of polystyrene, 1082

Lam, G. C. K.
Unsteady tall stack dispersion of chimney emissions and its application to varying wind directions, 1078

Lamb, B. K.
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336

Lawson, D. R.
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264

Laznow, J.
Overview of U.S. Environmental Protection Agency's Hazardous Air Pollutant Early Reduction Program, 31
The Clean Air Act: New enforcement and liability provisions, 1414

Lee, J. W.
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430

Lee, K.
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212

Lefohn, A. S.
NCLAN results and their application to the standard-setting process: Protecting vegetation from surface ozone exposures, 1046
Surface-level ozone: Climate change and evidence for trends, 136

Leger, C. B.
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Legge, A. H.
A vision of clean air, 888

Levin, M. H.
"Fuel cleaning" and materials separation at waste-to-energy plants, 767

Levine, S. P.
Analysis of complex mixtures of vapors in ambient air by fast-gas chromatography, 1446

Lewin, K. F.
Controlled enrichment system for experimental fumigation of plants in the field with sulfur dioxide, 1324

Lewis, N. M.
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644

Li, J.
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466

Lighty, J. S.
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Limpkin, T. A.
Measurements of VOCs from the TAMS network, 1319

Lin, Z. C.
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057

Linn, W. S.
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770

Liu, P.-S.
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461

Livingston, J. M.
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313

Lloyd, A. C.
Reactivity-based hydrocarbon controls: Scientific issues and potential regulatory applications, 657

Logan, T. J.
Accuracy assessment of EPA protocol gases purchased in 1991, 1617

Long, G.
Bioventing and vapor extraction: Innovative technologies for contaminated site remediation, 345

Lundgren, D. A.
Field measurements of dry deposition compounds using the transition flow reactor, 36

Lurmann, F. W.
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264

Lynch, S. K.
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488

Main, H. H.
Comparison of emission inventory and ambient concentration ratios of CO, NMOG, and NOx in California's South Coast Air Basin, 264

Maisel, B. E.
Atmospheric concentrations of PCDDs/PCDFs in Southern California, 672

Malone, L. C.
Identifying "worst case" persistence factors for carbon monoxide modeling near intersections in Orlando, Florida, 1461

Markowski, G. R.
The WHITEX study and the role of the scientific community: A critique, 1453

Martin, T. J.
A portable system for prediction of a transient plume, 433

Mattos de Lemos, H.
Pollution prevention and its role in sustainable economic development, 1550

Maxwell, M. A.
Current status of the ADVACATE process for flue gas desulfurization, 103

McCabe, R. W.
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071

McClenny, W. A.
Optical remote measurement of toxic gases, 18

McCrillis, R. C.
Effects of operating variables on PAH emissions and mutagenicity of emissions from woodstoves, 691

McElroy, J. L.
Application of airborne lider in particulate air quality problem delineation, monitoring network design and control strategy development, 1186

McGown, M. R.
Application of airborne lidar in particulate air quality problem delineation, monitoring network design and control strategy development, 1186

McIlvaine, R. W.
Global air pollution control in 1992 and its relationship to the solid waste industry, 254

McKee, H. C.
Comments on cleanup liability and the constitution, 1617
What about ex post facto?, 944

McNair, L.
Airshed calculation of the sensitivity of pollutant formation to organic compound classes and oxygenates associated with alternative fuels, 174

Meckes, M. C.
Solvent extraction processes: A survey of systems in the SITE program, 1118

Meo, M.
The total greenhouse warming potential of technical systems: analysis for decision making, 422

Messner, M. J.
Accuracy assessment of EPA protocol gases purchased in 1991, 1617

Midgett, M. R.
Accuracy assessment of EPA protocol gases purchased in 1991, 1617

Mohnen, V. A.
Surface-level ozone: Climate change and evidence for trends, 136

Moore, M. G.
EPA's federal technology transfer act program, 892

Morgester, J. J.
Comparison of spill frequencies and amounts at vapor recovery and conventional service stations in California, 284

Morse, H. N.
Aluli v. Lewin, 1717
Coalition for Clean Air v. Environmental Protection Agency, 1027
Commonwealth of Pennsylvania, Department of Environmental Resources v. Environmental Protection Agency and William K. Reilly, Administrator, 865
Environmental Defence Fund, Inc., v. Wheelabrator Technologies , Inc., 509
H. Douglas Miller v. Campbell County, 1263
National Environmental Services Corporation v. The Pollution Control Board and Illinois Environmental Protection Agency, 395
Newbay Corporation v. Annarummo (the director), 118
South Coast Air Quality Management District v. Security Environment Systems, Inc., 233
The People of The State of New York v. Allied Health Care Products, Inc., 1539
Town of Preston v. Department of Environmental Protection, 1393
United States v. Economy Muffler and Tire Center, 743
W. J. Anthony, Director of the California Department of General Services v. Arthur Blech, etc., et al., 1133

Murdoch, R. W.
Accuracy assessment of EPA protocol gases purchased in 1991, 1617

Niaizi, S. A.
Vehicle occupant exposure to carbon monoxide, 1603

Nielsen, N. B.
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313

Novello, D. P.
EPA's clean air act operating permit rules, 1288
The OTC challenge: Adding VOC and NOx controls in the Northeast, 1053

Odman, M. T.
Airshed calculation of the sensitivity of pollutant formation to organic compound classes and oxygenates associated with alternative fuels, 174

Offen, G.
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498

Olszyk, D. M.
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063

Ondov, J. M.
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057

Ong, S. K.
A rapid in situ respiration test for measuring aerobic biodegradation of hydrocarbons in soil, 1305

Orchard, D.
Report from Canada, 128, 404, 752, 1036, 1548

Owens, W. D.
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Paddon, B.
Management principles for negotiating waste facility siting agreements, 1296

Pandullo, R. F.
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488

Pate, B.
Temporal stability of polar organic compounds in stainless steel canisters, 460

Patterson, C. L.
Waste analysis plan review advisor: An intelligent database to assist RCRA permit reviewers, 1250

Paulsen, P. J.
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057

Paustenbach, D. J.
Airborne concentrations of trivalent and hexavalent chromium from contaminated soils at unpaved and partially paved commercial/industrial sites, 40

Pegnam, R. C.
Airborne particulate emissions from a chromic acid anodizing process tank, 303

Peng, R.-C.
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770

Perdek, J. M.
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493

Perry, J.
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912

Perry, Jr., J.
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071

Pershing, D. W.
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Peterson, M. R.
Temporal stability of polar organic compounds in stainless steel canisters, 460

Pielke, R. A.
Selected international receptor-based air quality standards, 1567

Pilat, M. J.
Airborne particulate emissions from a chromic acid anodizing process tank, 303

Pleijel, K.
Photochemical ozone creation potentials: A study of different concepts, 1152

Porter, J. A.
Source fingerprints for volatile non-methane hydrocarbons, 1437

Purcell, A. H.
Invited Comments, 1169

Quillian, A. M.
Field measurements of dry deposition compounds using the transition flow reactor, 36

Randall, P.
Industrial pollution prevention: A critical review, 618

Rao, S. T.
Statistical analysis of trends in urban ozone air quality, 1204

Rasmussen, R. A.
Forest hydrocarbon emissions: relationships between fluxes and ambient concentrations, 810

Rasnake, D. G.
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466

Rawe, J.
Solvent extraction processes: A survey of systems in the SITE program, 1118

Ray, W. D.
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328

Rector, A. B.
Towards the year 2000: Critical issues in the global environment. A summary of the 9th World Clean Air Congress of the International Union of Air Pollution Prevention Associations, 1573

Reinhart, D. R.
Flux chamber design and operation for the measurement of municipal solid waste landfill gas emission rates, 1067

Renard, E.
Solvent extraction processes: A survey of systems in the SITE program, 1118

Reynolds, S. D.
Why did you take that sample?, 1420

Rochelle, G. T.
Limestone dissolution in flue gas scrubbing: Effect of sulfite, 926

Rosenberg, W. G.
Responding to Rio, 1142

Ross, L. L.
Invited comments, 1168

Roussel, R.
Atmospheric polycyclic aromatic hydrocarbons at a point source of emissions. Part A: Identification and determination of polycyclic aromatic compounds in airborne particulate matter near a horizontal stud soderberg plant, 1609

Royer, M. D.
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970

Rueff, R. M.
The cost of reducing emissions from late-model high-emitting vehicles detected via remote sensing, 921

Rupp, R. W.
The European Community's Fifth Environmental Action Program, 1276
Ukraine's environment: An ecological nightmare, 882

Russell, A.
Airshed calculation of the sensitivity of pollutant formation to organic compound classes and oxygenates associated with alternative fuels, 174
Flue gas NOx Reduction using ammonia radical injection, 1193

Sandhu, H. S.
A vision of clean air, 888

Satterfield, G.
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Sawyer, R. H.
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493

Scheff, P. A.
Source fingerprints for volatile non-methane hydrocarbons, 1437

Schein, A.
EPRI Newsletter, 130, 530, 1045, 1412

Schild, K.
Airborne concentrations of trivalent and hexavalent chromium from contaminated soils at unpaved and partially paved commercial/industrial sites, 40

Schwartz, R. M.
The Clean Air Act: New enforcement and liability provisions, 1414

Sedman, C. B.
Current status of the ADVACATE process for flue gas desulfurization, 103

Sedman, R. M.
Why did you take that sample?, 1420

Selvakumar, A.
Control technologies for remediation of contaminated soil and waste deposits at superfund lead battery recycling sites, 970

Sextro, R. G.
Soil-Gas contamination and entry of volatile organic compounds into a house near a landfill, 277

Shadwick, D. S.
Surface-level ozone: Climate change and evidence for trends, 136

Shamoo, D. A.
Controlled exposures of volunteers to respirable carbon and sulfuric acid aerosols, 770

Shannon, J. D.
A portable system for prediction of a transient plume, 433

Sheehan, P.
Airborne concentrations of trivalent and hexavalent chromium from contaminated soils at unpaved and partially paved commercial/industrial sites, 40

Sheets, R. W.
Structural dependence of diurnal fluctuations of radon progeny in residential buildings, 457

Shelton, J. W.
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Sheth, A. C.
Interactions between potassium and sulfur species in a coal-fired magnetohydrodynamics system, 1466

Shields, H. C.
Volatile organic compounds measured at a telephone switching center from 5/30/85 - 12/6/88: a detailed case study, 792

Shores, R. C.
Accuracy assessment of EPA protocol gases purchased in 1991, 1617

Siegl, W. O.
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912
Speciated hydrocarbon emissions from the combustion of single component fuels. II. Catalyst effects, 1071

Silcox, G. D
The desorption of toluene from a montmorillonite clay adsorbent in a rotary kiln environment, 681

Singer, C.
Current status of the ADVACATE process for flue gas desulfurization, 103

Sistla, G.
Statistical analysis of trends in urban ozone air quality, 1204

Skelly, J. M.
Growth response of four species of eastern hardwood tree seedlings exposed to ozone, acidic precipitation, and sulfur dioxide, 309

Skovronek, H. S.
EPA SITE demonstration of the BioTrol soil washing process, 96

Smith, D. L.
Measurements of VOCs from the TAMS network, 1319

Smith, J. C.
ICAC (formerly IGCI) Newsletter, 14, 408, 886, 1286

Snow, R.
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328

Snyder, T. R.
Effects of sorbent injection on particulate properties: Part I. Low-temperature sorbent injection, 1592

Somerville, M. C.
Measurements of VOCs from the TAMS network, 1319

Spengler, J. D.
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212

Springer, J.
Industrial pollution prevention: A critical review, 618

Staley, L.
Site demonstration of the Retech plasma centrifugal furnace: The use of plasma to vitrify contaminated soil, 1372

Stallings, J.
NOx controls for utility boilers: Highlights of the EPRI July 1992 workshop, 1498

Stedman, D. H.
Emission characteristics of Mexico City vehicles, 1424
Infrared emission and remote sensing, 695

Stern, C. H.
Parametric study of fireplace particulate matter and carbon monoxide emissions, 777

Stessel, R. I.
Flexible membrane liner testing in waste management, 1178

Stevens, R. K.
Tagging diesel and residential oil furnace emissions in Roanoke, Virginia, with enriched isotopes of samarium, 1057

Stinson, M. K.
EPA SITE demonstration of the BioTrol soil washing process, 96

Stone, D. K.
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488

Stone, K.
Industrial pollution prevention: A critical review, 618

Straley, Y. H.
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198

Stumbar, J. P.
Field demonstration of the LINDE oxygen combustion system on the EPA mobile incinerator, 493

Stump, F. D.
The composition of motor vehicle organic emissions under elevated temperature during summer driving conditions (75 to 105 °F), 152
The composition of motor vehicle organic emissions under elevated temperature summer driving conditions (75 to 105 F)-Part II, 1328

Sullivan, D.
Personnel protection through reconnaissance robotics at Superfund remedial sites, 341

Taylor, P. H.
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430

Thompson, C. R.
Humidity as a modifier of vegetation responses to ozone: Design and testing of a humidification system for open-top field chambers, 1063

Thullier, R. H.
Evaluation of a puff dispersion model in complex terrain, 290

Thurnau, R. C.
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430
The behavior of arsenic in a rotary kiln incinerator, 179

Timberlake, D. L.
Steam stripping and batch distillation for the removal and/or recovery of volatile organic compounds from industrial wastes, 936

Toole-O'Neill, B.
Summary of the 1991 EPRI/EPA/DOE SO_2 control symposium, 1110

Trinker, F. H.
Speciated hydrocarbon emissions from the combustion of single component fuels. I. Effect of fuel structure, 912

Troxler, W. L.
1991 thermal treatment remediation industry contractor survey, 844

Uthe, E. E.
Airborne lidar mapping of ozone concentrations during the Lake Michigan ozone study, 1313

Vatavuk, W. M.
Flares. Part I. Flaring technologies for controlling VOC-containing waste streams, 333
Flares. Part II. Capital and annual costs, 488

von Lehmden, D. J.
Stability of PPB and PPM organic cylinder gases used for calibration and audits, 1198

Wahl, G.
Solvent extraction processes: A survey of systems in the SITE program, 1118

Walker, B. L.
Air pollution emission factors for medical waste incinerators, 784
Flux chamber design and operation for the measurement of municipal solid waste landfill gas emission rates, 1067

Warren, J. L.
Flow rates and compositions of incinerated waste streams in the United States, 437

Warren, S. H
Effects of operating variables on PAH emissions and mutagenicity of emissions from woodstoves, 691
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49

Waterland, L. R.
Pilot-scale evaluation of incinerability ranking system for hazardous organic compounds, 1430

Waterman, J. D.
Waste analysis plan review advisor: An intelligent database to assist RCRA permit reviewers, 1250

Watts, R. R.
Effects of operating variables on PAH emissions and mutagenicity of emissions from woodstoves, 691
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49

Weschler, C. J.
Volatile organic compounds measured at a telephone switching center from 5/30/85 - 12/6/88: A detailed case study, 792

Wilkins, M. C.
Evaluation of high volume particle sampling and sample handling protocols for ambient urban air mutagenicity determinations, 49

Williams, II, E. L.
Photochemical pollution at two Southern California smog receptor sites, 805

Williams, T.
1992 update of U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Emerging Technology Program, 1644

Wolff, G. T.
Ozone control strategies based on the ratio of volatile organic compounds to nitrogen oxides, 1173

Yanagisawa, Y.
Measurement of personal carbon monoxide exposures by mailed passive sampler, 1212

Yao, S.-C.
Flue gas NOx reduction using ammonia radical injection, 1193

Zahodiakin, P.
Washington Report, 4, 126, 240, 402, 516, 750, 872, 1034, 1140, 1270, 1400, 1546

Zeiss, C.
Management principles for negotiating waste facility siting agreements, 1296

Zhou, Q.
Flue gas NOx reduction using ammonia radical injection, 1193

Zimmerman, P. R.
Measurement of hydrocarbon emissions fluxes from refinery wastewater impoundments using atmospheric tracer techniques, 1336